Opportunities and Challenges for Marine Aquaculture in the Gulf of Maine





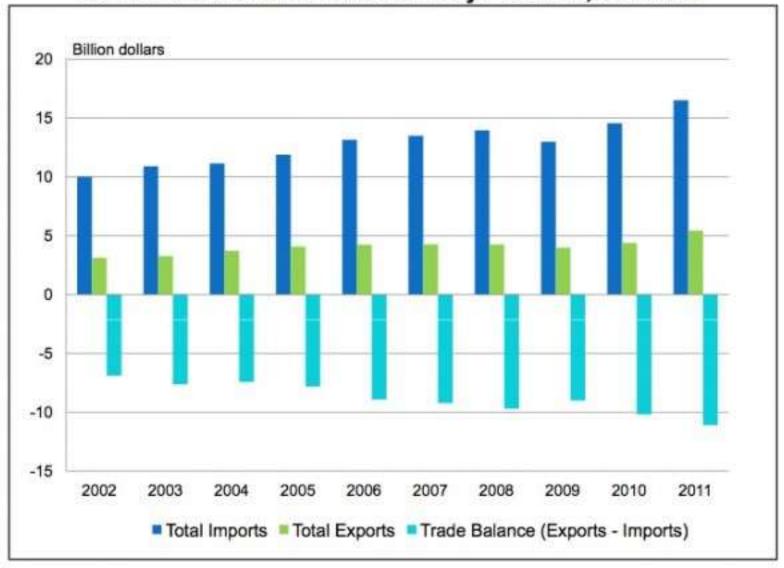


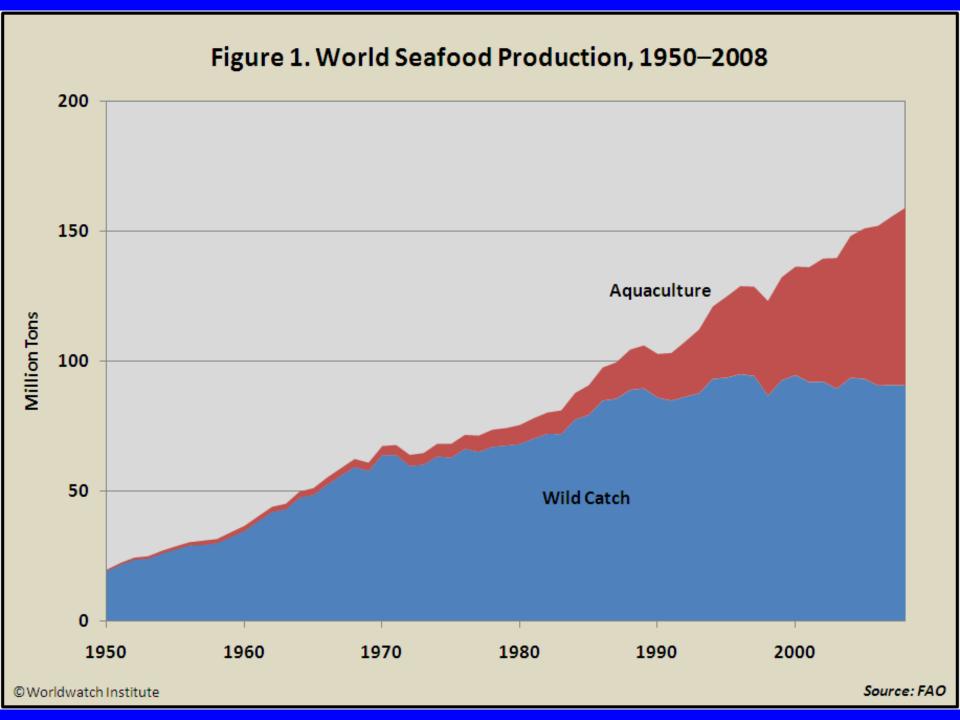


Gloucester Maritime Forum February 7, 2103



U.S. Trade Balance in Edible Fishery Products, 2002-2011



















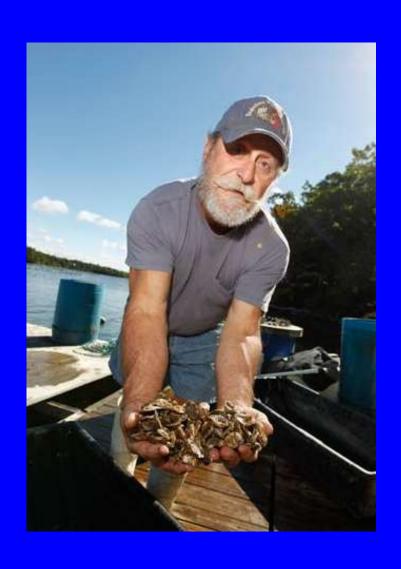


Trend: Integrated Multitrophic Aquaculture (IMTA)





Trend: some expansion likely







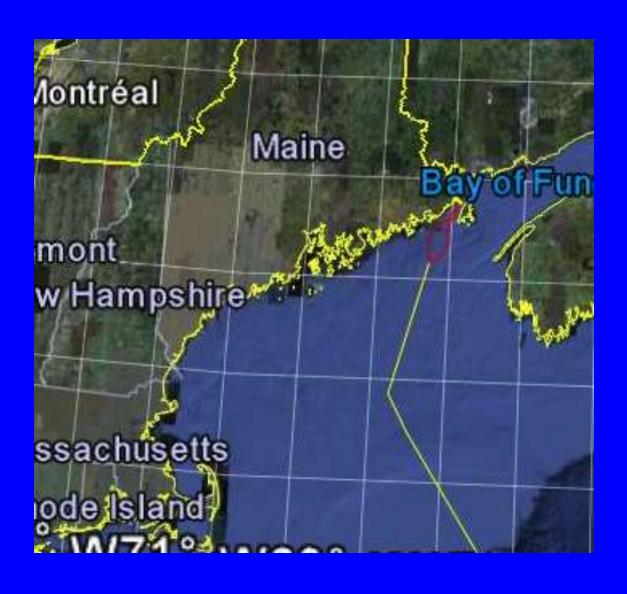




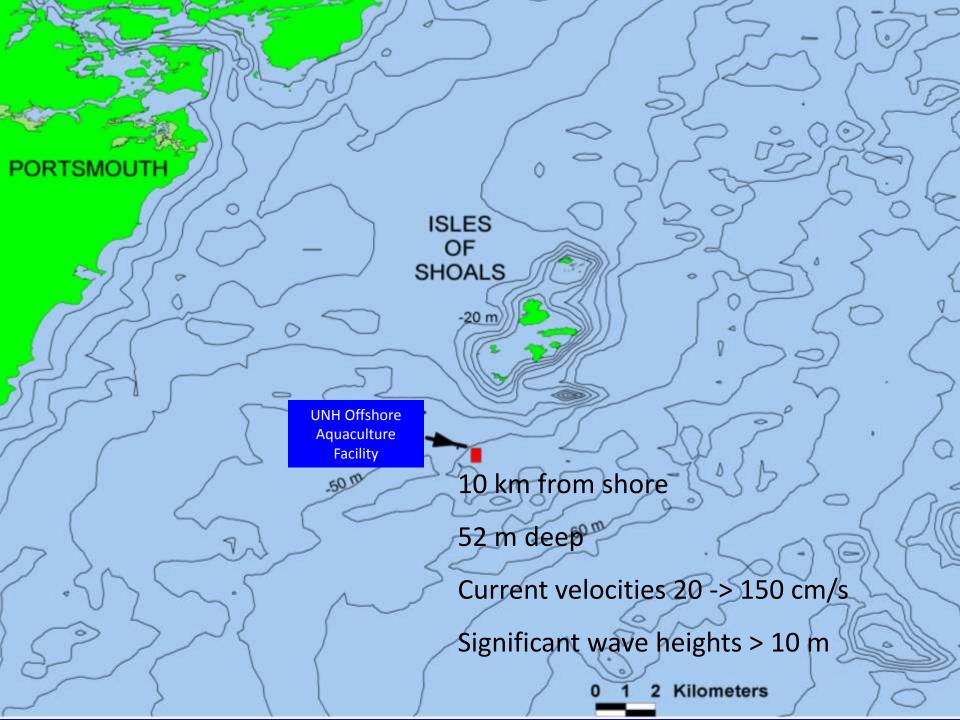




Open Ocean- US EEZ







New Hampshire Open Ocean Aquaculture Demonstration Site

NH Mainland Shore - 10 km Isles of Shoals- 2 km north Remotely Controlled Automated Feed Buoy Environmental Monitoring buoy Submerged Longlines Submersible Sea Cages Suspended Mussel Growing Ropes Submerged Grid Sysyem http://ooa.unh.edu



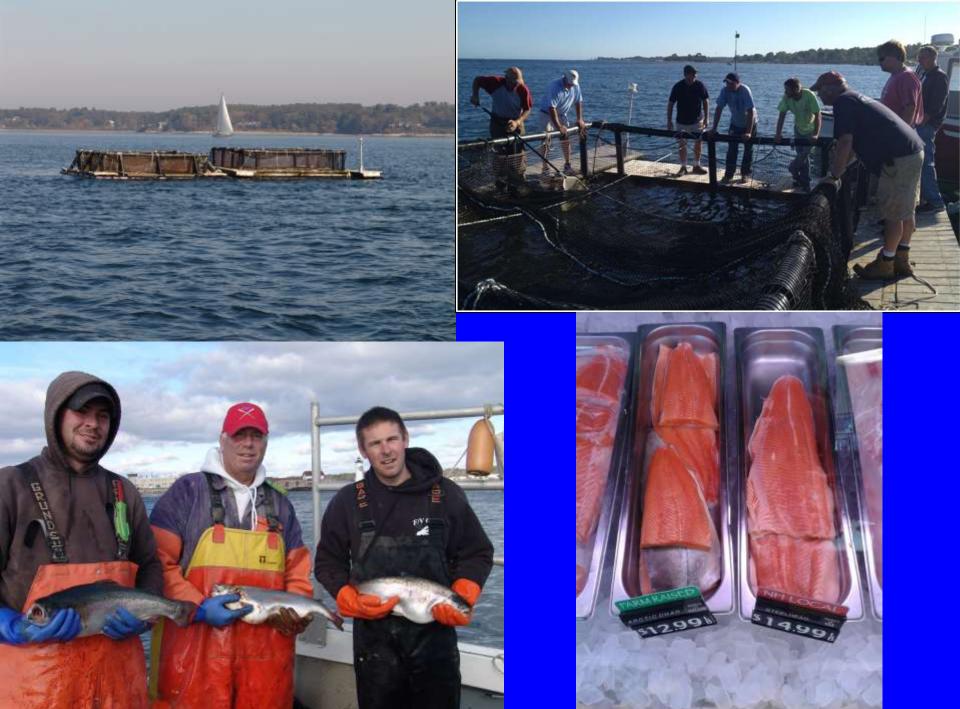


Remote control and observation









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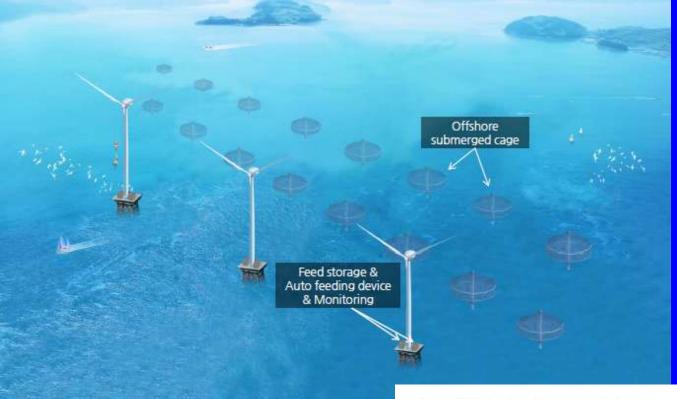




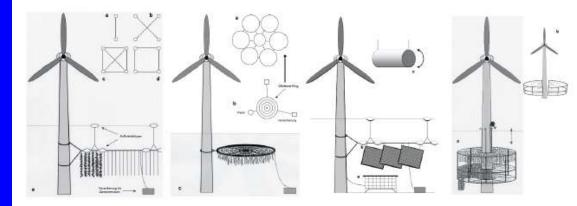








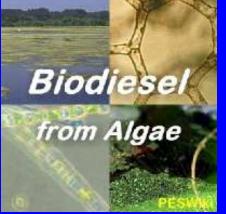
Concept of Seaweed and shellfish





























Conceptual diagram illustrating how effective management can reduce user conflicts in marine environments.

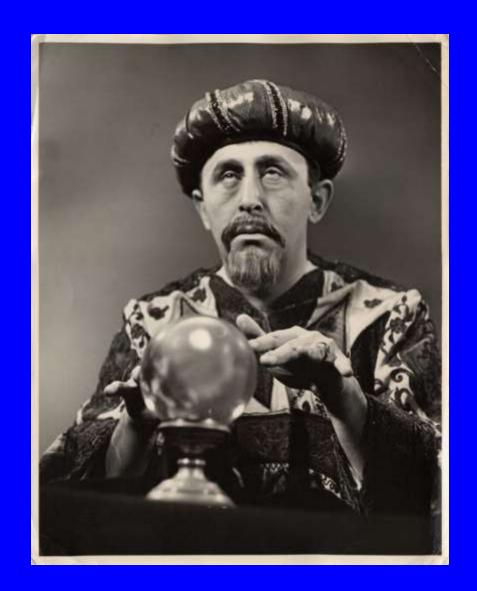
Diagram courtesy of the integration and Application Network (an umore educ. University of Maryland Center for Environmental Science, Source Kruczynski, W.L., and P.I.

Eletcher (eds.), 2012. Tropical Connections South Floridat, marine environment, WN Press, University of Maryland Center for Environmental Science, Cambridge, Maryland.

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SIR WINSTON CHURCHILL (1874 - 1965)

